

Industrial crops course description

1. Course Name:					
Industrial crops					
2. Course Code:					
AGEX24_F2041					
3. Semester / Year:					
First semester / second stage / 2023–2024					
4. Description Preparation Date:					
1/9/2023					
5. Available Attendance Forms:					
My presence					
6. Number of Credit Hours (Total) / Number of Units (Total)					
2 theoretical hours / 3 practical hours (75 hours) / 3.5 units					
7. Course administrator's name (mention all, if more than one name)					
Name: Dr. Waleed Khalid Shahatha, Saddam Ibrahim Yahya Email: w.khalid83@uomosul.edu.iq					
8. Course Objectives					
Course Objectives		<ul style="list-style-type: none"> ● Providing the student with theoretical and practical information on how to follow modern methods of industrial crop management. ● Introducing the student to the importance of industrial crops and places to grow them. ● Providing the student with theoretical and practical information on managing relevant fields, laboratories and laboratories. 			
9. Teaching and Learning Strategies					
Strategy		<ul style="list-style-type: none"> - Interactive lecture - Brainstorming - Dialogue and discussion - Assigning tasks and reporting 			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2Theoretical	Learn about industrial crops and explain the importance of oil crops and their division	Industrial crops	Interactive lecture, brainstorming, dialogue and discussion	Short exams, assignments, discussions

	3practical	Discovers the general characteristics of some crop oils and their uses	Oil crops	Assigning tasks and reporting	
2	2Theoretical	He is familiar with the economic importance of the sesame crop and identifies the soil service, crop and harvesting processes	Sesame crop	Interactive lecture, brainstorming, dialogue and discussion	Short exams, assignments, discussions
	3practical	Tests the method of extracting oil from seeds of oil crops	Oil	Assigning tasks and reporting	
3	2Theoretical	Understands the economic importance of the sunflower crop and identifies soil service, crop and harvesting processes	Sunflower crop	Interactive lecture, brainstorming, dialogue and discussion	Short exams, assignments, discussions
	3practical	Discover the botanical description and varieties of sesame	Sesame	Assigning tasks and reporting	
4	2Theoretical	He is familiar with the economic importance of the safflower crop and identifies the soil service, crop and harvesting processes	Safflower crop	Interactive lecture, brainstorming, dialogue and discussion	Short exams, assignments, discussions
	3practical	Discover the botanical description and varieties of sunflower	Sunflower	Assigning tasks and reporting	
5	2Theoretical	He is aware of the most important reasons leading to a decrease in the area and productivity of oil crops	Solve problem	Dialogue and discussion	Short exams, assignments, discussions
	3practical	Discover the botanical description and most important varieties of safflower	Safflower	Assigning tasks and reporting	
6	2Theoretical	Understands the economic importance of the soybean crop and identifies soil service, crop, and harvesting processes	Soybean crop	Interactive lecture, brainstorming, dialogue and discussion	Short exams, assignments, discussions
	3practical	Discover the botanical description of soybeans and their aggregates	Soybean	Assigning tasks and reporting	
7	2Theoretical	Understands the economic importance of field pistachio crops and identifies soil service, crop and harvesting processes	Groundnut crop	Interactive lecture, brainstorming, dialogue and discussion	Short exams, assignments, discussions
	3practical	Discover the botanical description of field pistachios	Groundnut	Assigning tasks and	

				reporting	
8	2Theoretical	Understands the economic importance of the rapeseed crop and identifies soil service, crop and harvesting processes	Rapeseed crop	Interactive lecture, brainstorming, dialogue and discussion	Short exams, assignments, discussions
	3practical	Discover the botanical description of rapeseed	Rapeseed	Assigning tasks and reporting	
9	2Theoretical	Understands the economic importance of the castor crop and identifies the soil service, crop and harvesting processes	Castor crop	Assigning tasks and reporting	Short exams, assignments, discussions
	3practical	Discover the botanical description of castor	Castor	Assigning tasks and reporting	
10	2Theoretical	Recognizes fiber crops, recognizes the economic importance of the cotton crop, and identifies the processes of soil service, yields, and harvesting.	Fiber crops (cotton crop)	Interactive lecture, brainstorming, dialogue and discussion	Short exams, assignments, discussions
	3practical	Discover the botanical description of cotton and its types	Cotton	Assigning tasks and reporting	
11	2Theoretical	Understands the economic importance of the flax crop and identifies soil service, yield, and harvesting processes	Flax crop	Interactive lecture, brainstorming, dialogue and discussion	Short exams, assignments, discussions
	3practical	Discover the botanical description of flax	Flax	Assigning tasks and reporting	
12	2Theoretical	Learn about sugar crops, become familiar with the economic importance of the sugar beet crop, and determine the processes of soil service, yields, and harvesting.	Sugar crops (sugar beet crop)	Interactive lecture, brainstorming, dialogue and discussion	Short exams, assignments, discussions
	3practical	Tests the method of extracting sugar in the laboratory	Sugar	Assigning tasks and reporting	
13	2Theoretical	Understands the economic importance of the sugar cane crop and identifies soil service, yield and harvesting processes	Sugar cane crop	Interactive lecture, brainstorming, dialogue and discussion	Short exams, assignments, discussions
	3practical	Discover the botanical description of sugar beet and	Sugar beet	Assigning tasks and	

		growth phases		reporting	
14	2Theoretical	Shows the steps for manufacturing sugar in the factory	Sugar	Interactive lecture, brainstorming, dialogue and discussion	Short exams, assignments, discussions
	3practical	Discover the botanical description of sugar cane	Sugar cane	Assigning tasks and reporting	
15	2Theoretical	Recognizes narcotic crops, becomes aware of the economic importance of tobacco crop, and identifies the processes of soil service, crops, and harvesting.	Narcotic crops (tobacco)	Interactive lecture, brainstorming, dialogue and discussion	Short exams, assignments, discussions
	3practical	He is aware of the correct and appropriate methods for extracting and separating oil, fiber and sugar from industrial crops	Solve problem	Assigning tasks and reporting	

Course Evaluation

Sequence	Calendar methods	Calendar date (week)	Class	Relative weight %
1	Theoretical final report + practical reports	My theory is week 15 My work week is 1-15	7 theoretical + 6 practical	%13
2	Short test (1)	week (3)	4 theoretical + 2 practical	%6
3	Quiz Midterm Exam (Theoretical + Practical)	week (9)	4 theoretical + 5 practical	%15
4	Short test (2) Quiz	week (12)	10 theoretical + 5 practical	%15
5	Final practical test	Practical exams week	20	%120
6	A theoretical final exam	The week of theoretical exams	40	%40
	The total	100	100%	100%

11. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Oil and sugar crops: Dr. Tawakkol Younis Rizk Hikmat Abdul Ali. Industrial crop cultivation in Iraq: Dr. Abdul Ham Ahmed Younis and Mr. Abdul Sattar Abdullah A Karakji.
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Main references (sources)	Nothing
Recommended books and references (scientific journals, reports...)	Nothing
Electronic References, Websites	University of Mosul e-learning website

Theoretical subject teacher
Dr. Waleed Khalid Shahatha

Practical subject teacher
Saddam Ibrahim Yahya

Chairman of the Scientific Committee
Dr. Talal Saeed Hamid

Head of Field Crops Department
Dr. Talal Saeed Hamid